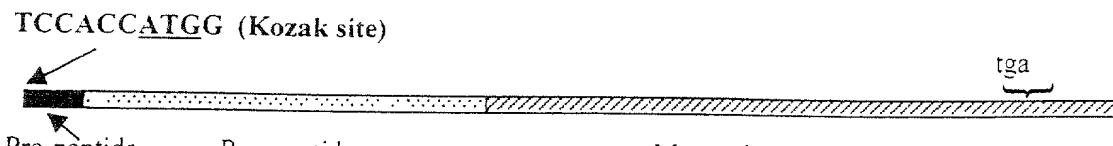


Figure 1



pCMLEM (Williamson et al. 1994)

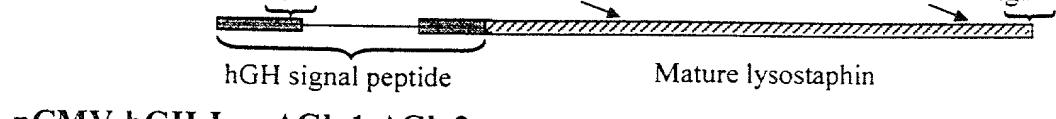
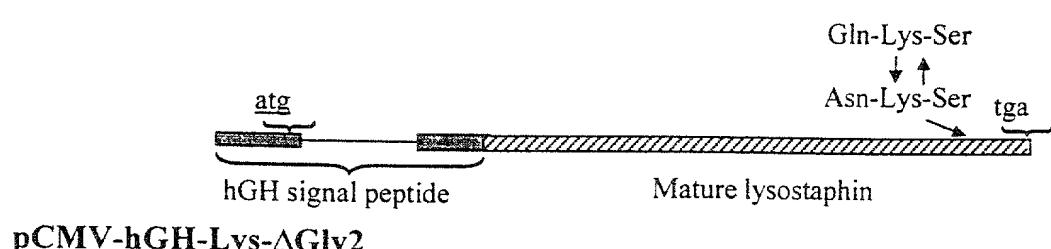
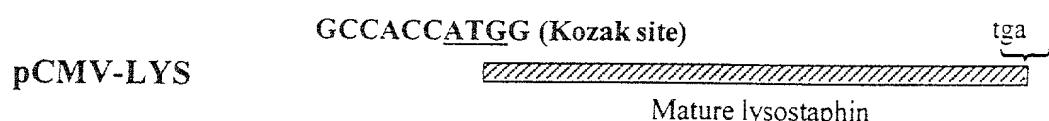


Figure 2

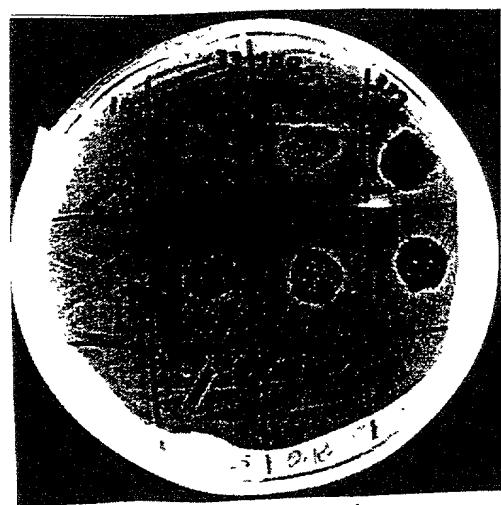


Figure 3

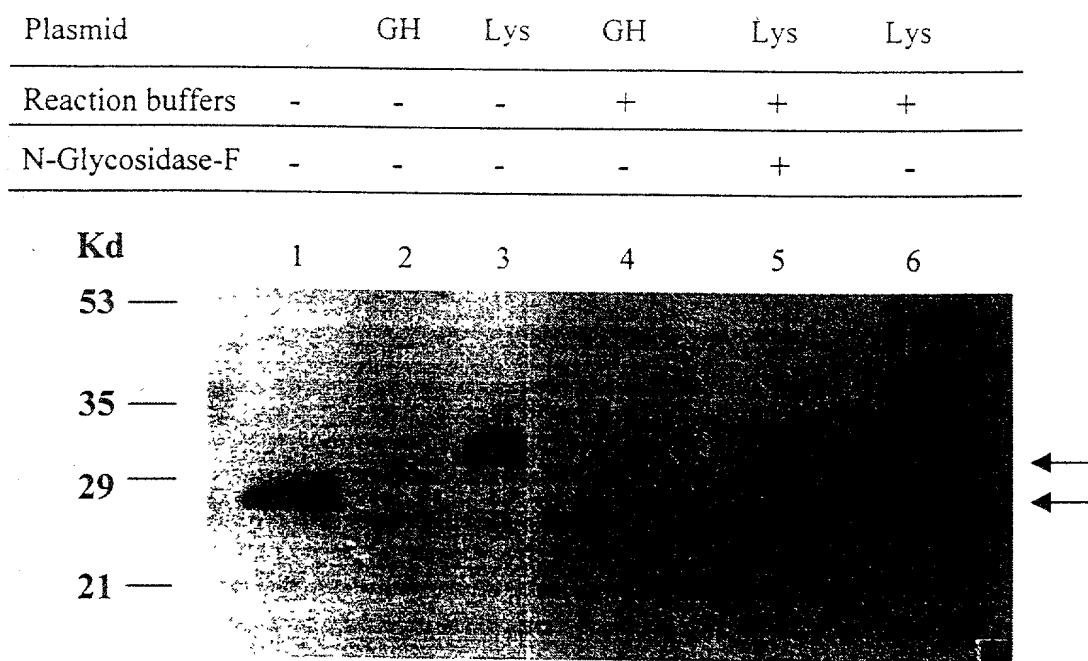


Figure 4

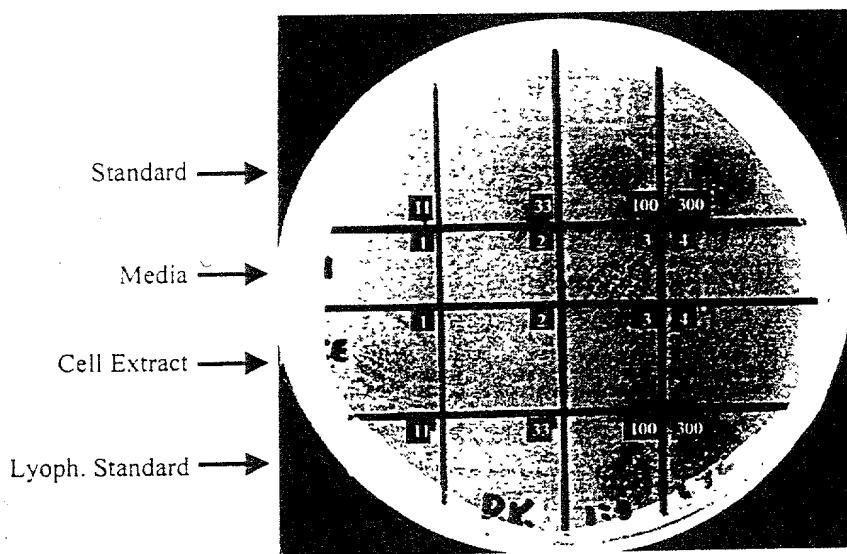
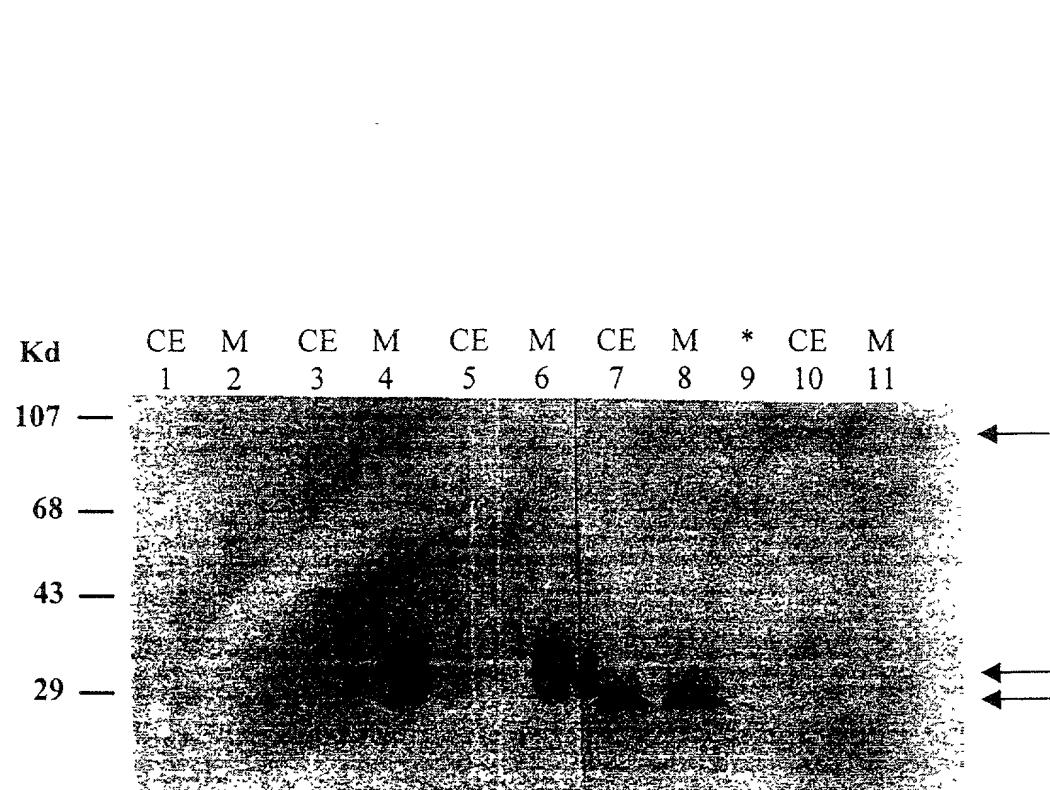


Figure 5



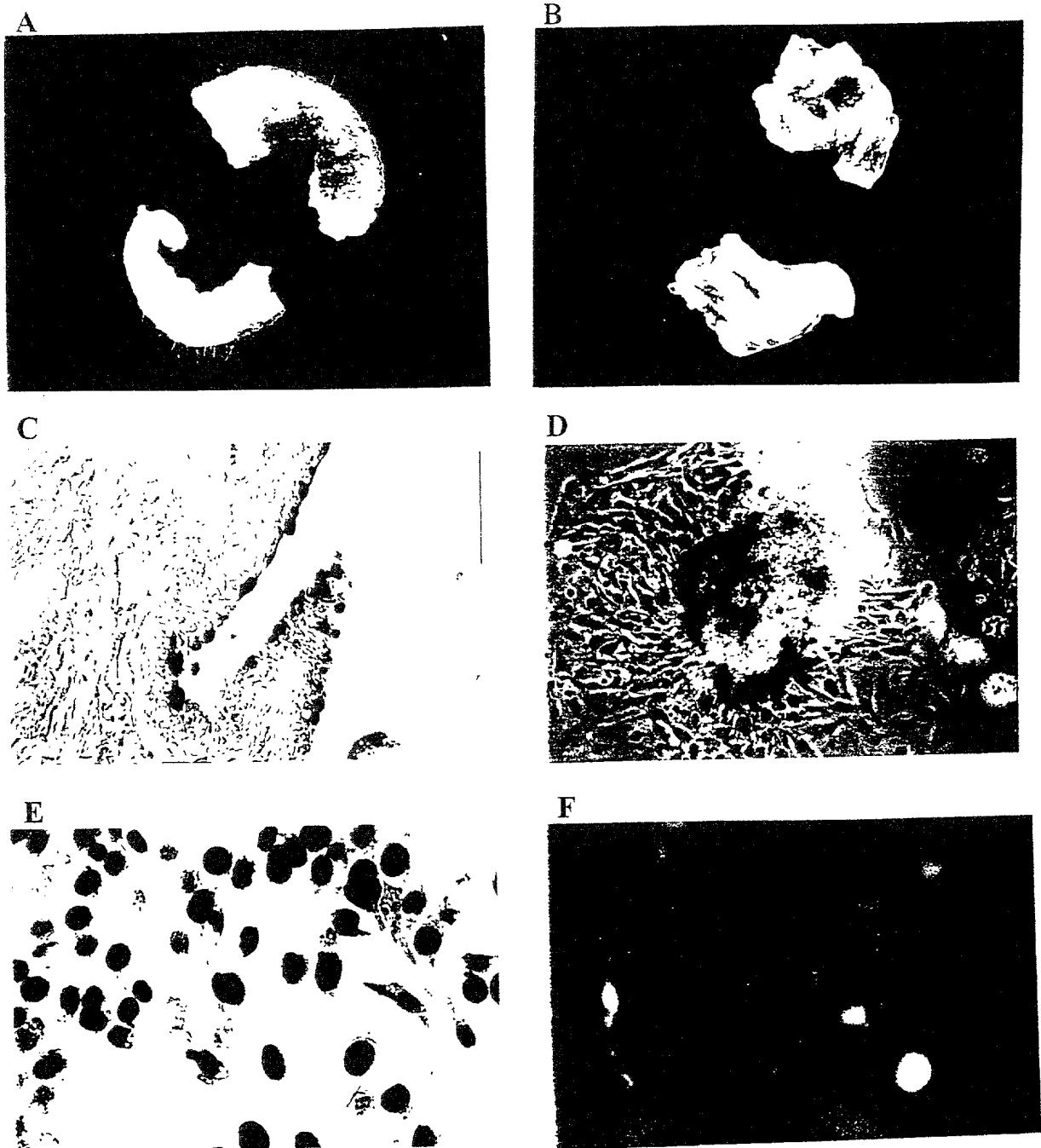


Figure 7

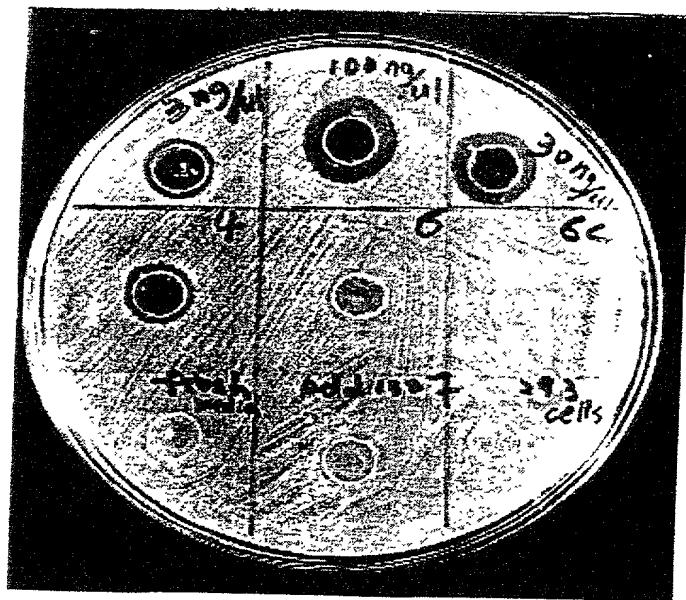


Figure 8

1 2 3 4



Figure 9

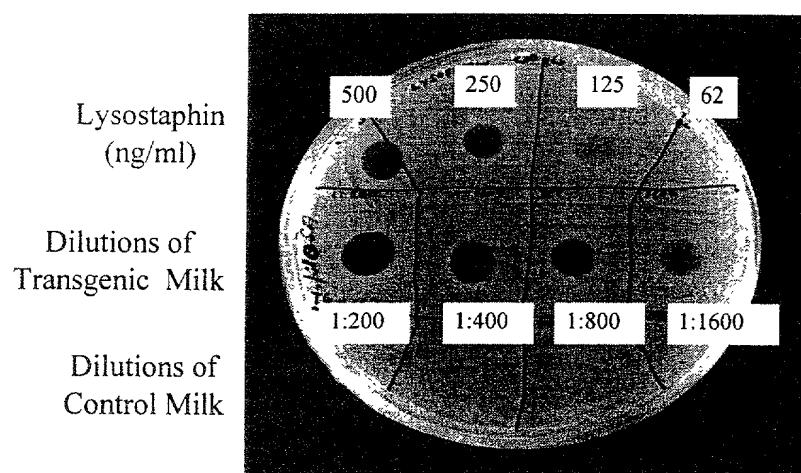


Figure 10

Figure 11

A.

ORIGIN

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61 gattcatatt attttaacac aatcaggtag aatttcaaaaa atcttaaagt caattttiga
121 gtgtgttgtt atatttcatac aaaatcaatc aatattattt tactttcttc atcgtaaaa
181 aatgtatataat ttataaaaaat atgctatctc cataaaatgtt ataataaattt agaggtatt
241 aaggttgaag aaaacaaaaaa acaattatta tacgagacct ttagctattt gactgagttac
301 atttgcctta gcatcttattt tttatggagg gattcaaaat gaaacacatg ctctgaaaa
361 aagtaatatg gatgttcaaa aaaaagtagc tgaagtagag acttcaaaag ccccaagtata
421 aaatacagct gaagtagaga cttcaaaagc tccagtagaa aatacagctg aagtagagac
481 ttc当地agct ccagtagaaa atacagotga agtagagact tcaaaagctc cagtagaaaa
541 tacagctgaa gtagagactt caaaagctcc ggtagaaaaat acagctgaaag tagagacttc
601 aaaagccccca gtagaaaaata cagctgaagt agagacttca aaagccctgg ttcaaaatag
661 aacagcttta agagctgcaaa cacatgaaca ttcagcacaa tggttgaata attacaaaaa
721 aggatatggt tacggccctt atccattagg tataatggc ggtatgcact acggagttga
781 tttttttatg aatattggaa caccagtaaa agctatttca agcggaaaaa tagttgaagc
841 tggttggagt aattacggag gaggtaatca aataggtttt attgaaaatg atggagtgca
901 tagacaatgg tatatgcato taagtaata taatgtttaa gttaggagatt atgtcaagc
961 tggtaataa atcgggttggc ctggaagcac tggttatttct acagcacccac attacactt
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1141 aacaaacaaa tatggcacac tatataatc agagtcaagct agcttccacac ctaatacaga
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1321 tacaggtaac agtggccaaac gtatttactt gctgttaaga acatgaaata aatctactaa
1381 tacttttaggt gttctttggg gaactataaa gtgagcgcgc tttttataaa ctatatgtat
1441 aatttagagca aataaaaaattt ttttcttattt cctaaagttt aagttt

B.

BASE COUNT

ORIGIN

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61 ggtccttatac cattaggtt aatggcggt atgcactacg gagttgattt tttttatgaat
121 atttggaaacac cgttaaaagc tatttcaagc gaaaaatag ttgaagctgg ttggagttat
181 tacggaggag gtaatcaat aagtttattt gaaaatgtt ggttgcatac acaatggat
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361 aatttattt caatttcaac tgcccaagat ccaatgcctt tcttaaagag cgaggatatt
421 gaaaaagcag gtggtacagt aactccaaacg ccaatacag gttggaaaaac aaacaaatatt
481 ggcacactat ataaatcaga gtcagctac ttccacaccta atacagatatt aataacaaga
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721 ctttgggaa ctataaaatgtt a

Figure 12

Figure 13

ORIGIN

1 gcccacacatgaacattc agcacaatgg ttgaataatt acaaaaaagg atatgggtac
61 ggccttatacatttagttat aatggcggt atgcactaag gagttgattt ttttatgaat
121 attggAACACcagaaaaagc tatttcaagg ggaaaaatag ttgaagctgg ttggagtaat
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241 atgcatactaa gtaaatataa tggtaaaagta ggagattatg tcaaagctgg tcaaataatc
301 ggtggctcgaaagactgg ttattctaca gcaccacatt tacacttcca aagaatggtt
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661 ggccaacgtatttacttgcc tggagaaca tggcagaagt ctactaatac tctgggttgtt
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Figure 14

A.

ORIGIN

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B.

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Figure 15

A

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B

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VETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKA

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Figure 16 (Page 1 of 2)

ORIGIN

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Figure 16 (page 2 of 2)

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5341 atctcgacat cagcgaaggtaa acacgttca tttaactactttaaactact aagatgttat
5401 aatttggta acgaagattttagtgcattt aagcacctac ttccatcgaa aatatcgccg
5461 gaagataaga cgactatatttatttataccat ctgtaaaatataa acaagcatat atacttctga
5521 taacagaacc ttgttagctgaa tgctggctat ggttagaaaa gtaaggttt gtttcaaagt
5581 aaaaatataa gctaaccact aattttatcat gtcagtggtt actcaacttgc ttagcatgat
5641 gctaatttcg tggcatggcg aaaaatccgtt gatctgaaga gatctgggt tcttttata
5701 tagaccgtaa atacattcaa taccttttaa agtattctt gccgtatttgc tactttgata
5761 ctttgcattt cttaactttttaa tatgacggtg gccttgctca ataaggattt tccgatattt
5821 cgatgtacaa tgacagttcat gtttaagttt aaaaacttta atgacttttag ccattggctac
5881 cttcgttggaa ggtgcctgtat ctgttaatttac sttttgaggt ttaccaattt gtttaatgag
5941 acgtttgata aacgcataatg ctgaatgtt atctcggttgc ttacgcagaa aatatctaa
6001 tttatgggtt ctgtaaaaat taatacttta gaaaacccag cattatatgtt atcaactgata
6061 tttatatttttta tatttccatattttaa aataacttgc acaaaaaattt catatttat ttttttgg
6121 gactaacaat atttattttttaa aagtatttgc tgcatttttgc ttaattttagt gaggccgtt
6181 tttatgtact ttaaatattttaa gttatgaaaaa ttttcttggaa tgagtctgc ttgattttt
6241 gtgtcatgca gtgtctttaag tggattttgc actccctttt gggaaatttca ataggtattt
6301 ttttaggctt atatttggat ggattactaa aaaaggatgc ttcttgatattttaactttaatt
6361 ttaataactt ccagcttaatttactgtttaaag ttgttataattttaaatttca gaaacattt
6421 caagaaaagg aatgcataat ttttgcatttca ttttcttggaa atgttataaa aatataagatg
6481 ttataccctttaa ttttatttttaa tgcttataaacttgcgttgcattt gttgatattt

Figure 17

"MKKTKNNYYTRPLAIGLSTFALASIVYGGIQNETHASEKSNDV
SKKVAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVE
NTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVET
SKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVENTAEVETSKAPVE
NTAEVETSKAPVENTAEVETSKALVQNRALRAATHEHSAQWLNNYKKGYGYGPYP
LGINGGMHYGVDFFMNIGTPVKAISSGKIVEAGWSNYGGGNQIGLIENDGVHRQWYMH
LSKYNVKVGDYVKAGQIIGWSGSTGYSTAPHLFQRMVNSFSNSTAQDPMPFLKSAGYG
KAGGTVTPTPNTGWKTNKYGTLYKSESASFTPNTDIITRTGPFRSMPQSGVLKAGQTIH
YDEVMKQDGHVWVGYTGNSGQRIYLPVRTWNKSTNTLGVLWGTIK"

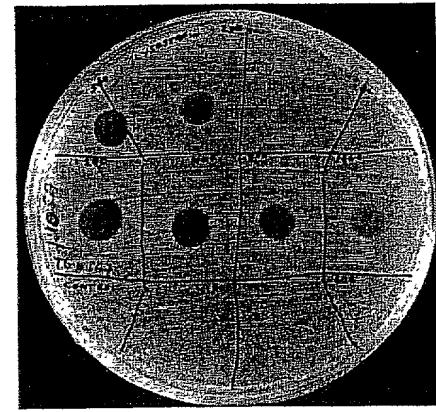
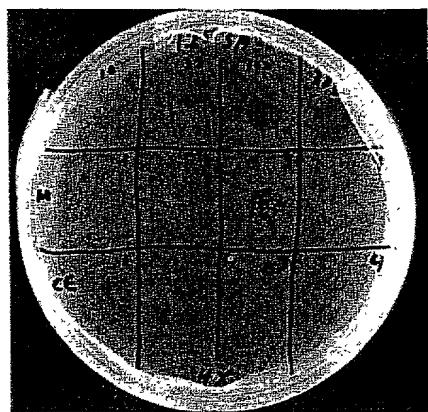


Figure 18

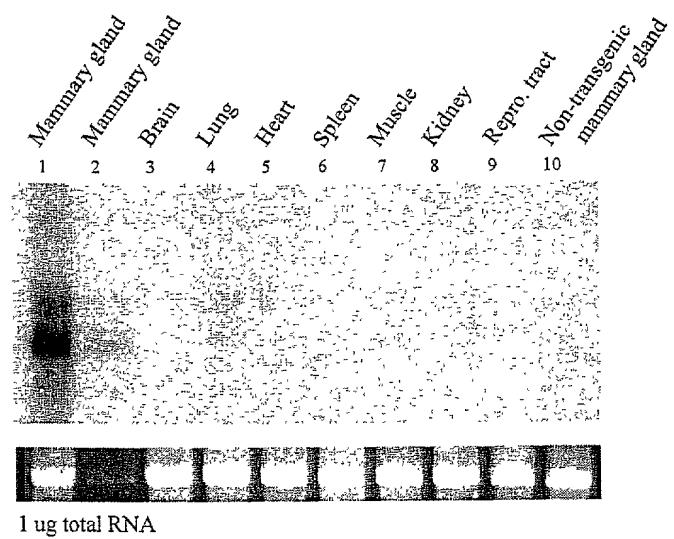


Figure 19